
Product Data Sheet

Product Name: AG 1478 hydrochloride

Cat. No.: GC50013

Chemical Properties

Cas. No. 170449-18-0

SMILES C1C=CC(NC2=NC=NC3=C2C=C(OC)C(OC)=C3)=CC=C1.ClFormula $C_{16}H_{14}ClN_3O_2 \cdot HCl$ M.Wt 352.22

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Potent and selective inhibitor of epidermal growth factor receptor kinase (IC₅₀ values 3 nM for EGFR and > 100 μM for ErbB2 and PDGFR). Inhibits proliferation of NCI-H2170 NSCLC cells in vitro (IC₅₀ = 1 μM).

Eguchi et al (1998) Calcium-dependent epidermal growth factor receptor transactivation mediates the angiotensin II-induced mitogen-activated protein kinase activation in vascular smooth muscle cells. *J. Biol. Chem.* 273 8890 PMID:9535870 | Han et al (1996) Tyrphostin AG 1478 preferentially inhibits human glioma cells expressing truncated rather than wild-type epidermal growth factor receptors. *Cancer Res.* 56 3859 PMID:8752145 | Puri and Salgia (2008) Synergism of EGFR and c-Met pathways, cross-talk and inhibition, in non-small cell lung cancer. *J. Carcinog.* 7 9 PMID:19240370 | Levitzki and Gazit (1995) Tyrosine kinase inhibition: an approach to drug development. *Science* 267 1782 PMID:7892601

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA